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AUTHOR Pollard, Jim
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ABSTRACT

This report presents tabular evaluations of 13 products described by their publishers as appropriate for desktop publishing. These products have in common the ability to combine text and graphics on a page; however, they vary greatly in capabilities and cost. Some products have a very narrow use (e.g., certificate makers and puzzle generators), and some have a very general use (e.g., drawing programs that can also format text into columns). Each product evaluated fulfills the following criteria: (1) text and graphics must be able to move freely on the page; (2) text and graphics must be able to be imported from other sources; (3) the program must be defined by the publisher as appropriate for use in schools; and (4) the product must operate on an Apple II series, a Macintosh, or an MS-DOS compatible microcomputer. Although some products are specially packaged for schools, most are designed for business or professional use, and schools will have to make certain adjustments to those programs to fit an educational setting or specific curriculum. The reviews for each of the individual products are summarized and presented in five tables: (1) Summary of Performance (the best and worst features of each of the products together with a general recommendation about appropriate applications; (2) Required and Optional Equipment, including minimum memory requirements; (3) Page Layout Features; (4) Word Processing and Graphics Features; and (5) Other Features, which include search and replace; spellcheck; style sheet, clip art, and software programs that can be used with the product. A list of publishers' addresses and phone numbers is included. (SD)

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THE Northwest Regional Educational Laboratory

TECHNOLOGY PROGRAM

PRODUCT DESCRIPTIONS: DESKTOP PUBLISHING FOR SCHOOL USE

A CRITICAL REVIEW OF PRODUCTS

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
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A MicroSIFT Report

May 1989

by

Jim Pollard

Northwest Regional Educational Laboratory
101 S.W. Main, Suite 500
Portland, Oregon 97204

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Table of Contents

Page

Introduction 1
Summaries
- Byline 1.0 4
- Children's Writing and Publishing Center School Edition 4
- First Publisher 2.0 4
- Medley 1.0 5
- PageMaker 3.0 MS-DOS 5
- PageMaker 3.0 Macintosh 6
- Pages 6
- Publish It! 1.01 Apple II 7
- Publish It! 1.11 MS-DOS 7
- Quark Style 1.01 7
- Quark XPress 2.0 8
- Springboard Publisher 1.11 Apple II 8
- Springboard Publisher 1.06 Macintosh 8

Required and Optional Equipment 9
Page Layout Features 10
Word Processing and Graphics Features 11
Other Features 13
Publishers 14

Introduction

In this report, we have summarized our look at a number of products which are described by their publishers as appropriate for "desktop publishing." The products have in common the ability to combine text and graphics on a page, but beyond that there is a very wide range of capabilities and prices. There are products which are also marketed as desktop publishing software but which have a very narrow use (e.g., certificate makers, puzzle generators, etc.) or a very broad use (e.g., a drawing program which can also format text into columns.) In choosing products for this report we use the following criteria:

- the product must allow text and graphics to be placed and moved freely on a page;
- the product must import both text and graphics from other sources;
- the publisher must identify the product as appropriate for desktop publishing in the schools; and
- the product must operate on an Apple II series, a Macintosh, or an MS-DOS compatible microcomputer.

The products reviewed were not written for the school market. Some, like the *Children's Writing and Publishing Center*, were written for a broader market and specially packaged for schools. Most, however, were designed for business and professional use. If schools find them useful, they will have to make the adjustments to fit an educational setting and a specific curriculum.

The criteria for reviewing desktop publishing software for schools are not greatly different from those which might be used to evaluate the products for business. A product must work well and have features which are essential if it is to be useful in either setting. In addition to these considerations, since teachers have reported that much of the software they have been using is too difficult for their students to learn, we looked at the products with ease of use and ease of learning in mind.

The general features we looked at were:

Price—The least expensive packages cost in the $70-$100 range, the most expensive were in the $700-$800 range.

Minimum RAM—The range was not significant except on Apple II series computers. Macintosh and MS-DOS products tended to operate with the standard RAM, but Apple IIGS products often required the most memory possible on the machine.

Required Hardware—Other than your computer, what will you need to operate the program? The extras can be costly if they include a hard disk drive, high resolution monitor, etc.

Optional Hardware—Can you use any of the fancy equipment that you already own?

Some features specific to desktop publishers that we looked at were:

Master Pages—Can you design graphics, column layouts, borders, etc. which automatically appear on every page? This feature is not essential, but it can save time on lengthy documents.

Undo—Can you change your mind about the last action you performed and have the document restored to how it was? Most have this feature.

Rules—Can you draw lines to separate columns, stories, banners, etc.?

Import Text—Since a desktop publisher is used to assemble elements from other sources, the specific word processing from which the package will import text is very important. Especially look for the word processor you use, since it is a bother to have to reformat your text after it is in the page layout program.

Import Graphics—Similarly, you should be able to import the pictures you draw elsewhere. If you have a large Clip Art collection, make sure that the package will import graphics in that format.

Draw—Can you create graphics within the desktop publishing program? Some allow simple frames and lines, others provide a complete set of painting tools.

Number of columns—This number is not especially important if it is at least four. More columns on a page are usually only necessary if you are using paper other than letter size.

Leading—Can you vary the amount of space between lines? Varying leading often helps in making a page more readable and attractive.

Kerning—Can you vary the distance between particular letter pairs (e.g., reduce the space between the "w" and the "o" in "word"). Kerning is not essential for most school publishing. Some programs do not kern but will allow you to vary the spaces between all of the letters.

Templates—Are there templates to guide you in creating an appealing layout? Some products provide them and some of those require them.

Clip Art—Does the package have some graphics included?

Typefaces—What typefaces does the program provide? (For Macintosh programs the fonts are not provided with the program but are part of the system you are using.)

Font sizes—This figure will be a range. Not all typefaces will have all of the sizes. Macintosh products will usually allow any size within the range for any typeface.

Type Styles—What can you use to emphasize the text?

Search and replace—Can you find a particular piece of text and substitute some other text automatically? This is important primarily if you are using the package to enter most of your text.

Spell check—Does the program check spelling automatically? Even if you enter the text somewhere else, this feature is helpful.

Export—Will any other programs be able to use any of the information from your completed page layout?

Style Sheets—A style sheet allows you to package a group of formatting commands and give them a name. When you want a paragraph to look a particular way, you just attach that style's name to the paragraph.

Rulers—Most programs have rulers which help you design you page.

Finally, we made some judgments to determine the following criteria:

Grade Range— Since most of the packages were not intended to be used in schools, they did not usually list a grade range.

Ease of Learning—This was one of the primary considerations for teachers. We rated not only the software, but also the supplementary materials.

Ease of Use—Once you know how to use a package, how easy is it on a day-to-day basis? This perception is not always the same as ease of learning, since some of the things that make a program easy to learn get in the way when you just want to do things fast.

Best Features—This was not only what we liked best, but also what would be most appropriate in the school.

Worst Features—What bothered the reviewers most about the program?

Finally, for each product we have made a recommendation. It is difficult to make an overall recommendation since the needs within a school differ so greatly. In general, if you are planning to produce quality products on an ongoing basis, then the entry level MS-DOS and Apple II products may not be powerful enough. In all of the Apple II products the lack of speed was a problem which would become significant in day-to-day use.

Summary of Performance

Title	Best Features	Worst Features	Recommendation
Byline 1.0 Ashton-Tate	The program does not require any special equipment for MS-DOS compatible microcomputers. It will work with a CGA video card and monitor and without a mouse. The preview of the general shape of each of the elements of text and graphics is accurate. The program supports a number of printers.	There is no autoflow around graphic elements or other text elements. When a picture is added, it is a difficult task to change the layout of the text to accommodate it. The page layout screen cannot be read. A view of the text is available when editing but the changes in text are not reflected on the screen until the user leaves the text editor. Byline does not import text from Microsoft Word.	Byline is difficult to use. The program is designed to be run on less powerful computers, and while this is an asset in some respects, it greatly restricts the ways in which the user interacts with the program. Consider this program only if you already use a word processor on the PC and it is one of the programs which are supported. If your school is under so strict a budget that you cannot afford a mouse for your page layout tasks, then this might be useful.
Children's Writing and Publishing Center: School Edition The Learning Company	The supplemental materials are very good lesson plans for teaching the writing process. There is some emphasis on page design, but more on writing. The program is easy to use, especially in integrating graphics and text.	The program lacks many basics of a text processor and does not allow the importing of text. Text is not easy to revise in format since it must be deleted then re-entered. Many of the choices which contribute to effective page layout are forced by the program. Students learn only very simplistic (e.g., one-column or two-column) design considerations.	The program's supplemental activities make it a reasonable learning tool. However, if the tool is intended for use in producing ongoing newsletters, posters, etc. its limitations would soon become overwhelming.
First Publisher 2.0 Software Publishing Company	The program is very quick to learn. The pull-down menus are well labeled and organized. The screens are easy to read. Formatted text may be imported from a variety of word processors. A variety of paint tools is included.	The screen shows a limited section of a page and is not WYSIWYG. Multi-page documents are difficult to handle. Importing art from Clip Art collections is difficult. Each document may have only one text file in it.	While the program will import text and graphics from an impressive variety of word processors and paint programs, First Publisher is not powerful enough for even simple page layout. The inability to import more than one text file in a document limits its use to simple flyers and posters.

Title	Best Features	Worst Features	Recommendation
Medley 1.0 Milliken	The best part of the program is the complete integration of the three major parts: word processing, drawing, and page layout. Both the word processing module and the drawing module are as complete as any dedicated programs for the Apple IIgs. The autoflow around odd-shaped graphics is very nice. The word processor includes a spelling checker, automatic hyphenation, and a thesaurus.	The program is very slow at refreshing the screen when any text is changed. This would make a student less likely to experiment with changes. The text does not always flow around graphics in predictable ways. The screen does not always redraw accurately. When a graphic is resized or moved, portions of the original graphic will remain on the screen. The program will not scroll when making mouse selections. There is no page preview.	The program is a capable word processor and drawing program, but only adequate as a page layout program. Middle school students would probably enjoy the graphic representation of the text, but the word processor is too slow to consider for producing anything but short articles. The best use of Medley might be to compose illustrated stories. Since each document can contain only one word processing file, its use in constructing class or school newspapers is limited.
PageMaker 3.0 (MS-DOS) Aldus	The program imports documents very easily and completely. Because PageMaker is a standard on the PC, as applications are developed they are made to be compatible with this program. Style sheets allow paragraph styles to be designed and applied to a document. Changing the style sheet changes all of the paragraphs which are designed in that style. There are several levels of zoom which speed the page layout process. General layout can be done with the entire page showing while editing text can be done at actual size or larger. Text can flow around or through graphics. Control over typographics is very precise.	Word processing must still be done with another application. There is no spelling checker or search and replace function. The price is high for a school budget. The program itself is expensive and the required hardware is more powerful than is found in most secondary schools.	PageMaker continues as one of the best page layout programs. Advantages to using it in the school include the fact that this is the program the students are likely to encounter after they leave school. While the price of the program is high, the actual cost of using it is higher. Each computer must be compatible with an IBM AT and have a hard disk in order to use PageMaker. If your needs are for a professional-looking product or for a program to teach vocational page layout skills, then PageMaker for the PC is a good choice.

Title	Best Features	Worst Features	Recommendation
PageMaker 3.0 (Macintosh) Aldus	The program imports documents very easily and completely. Because PageMaker is a standard on the Macintosh, as applications are developed they are made to be compatible with this program. Style sheets make changing the format of paragraphs very easy. The program has several levels of zoom. General layout can be done with the entire page showing while editing text can be done at actual size or larger. Text can flow around or through graphics. Control over kerning and leading and line widths is very precise.	Word processing must still be done with another application. There is not spelling checker or search and replace function. The price is high for a school budget.	PageMaker continues as one of the best page layout programs. Advantages to using it in the school include the fact that this is the program the students are likely to encounter after they leave school. While the price of the program is high, the actual cost of using it is higher. Each computer must also have a hard disk in order to use PageMaker. If your needs are for a professional looking product or for a program to teach vocational page layout skills, then PageMaker is a very good choice.
Pages PinPoint Software	The program is well layed out and easy to use. Files may be imported from a wide array of word processors, paint programs, and Lotus 1-2-3. Fonts are scalable. The program is inexpensive.	There is no font for underlined words. The program can be very slow at updating screens. At times even moderately fast typists can outpace the software. When this happens the computer beeps to signal that keystrokes are being lost. The suggested fix for this, turning off the feature which displays actual fonts, defeats much of the purpose of the program and is only parially successful. Pages does not automatically wrap text around graphics. The user may not edit the page when the full-page view is showing.	If your need is for very simple page layout and you plan to use your own word processor, then Pages is a good choice. It is too slow to consider as a word processor, but it does well at importing both text and graphics. The price is very good for the number of features available. Some which are missing, such as underlining and text wrapping, may be important enough to warrant a more powerful program, however.

Title	Best Features	Worst Features	Recommendation
Publish It! 1.01 (Apple II) Timeworks, Inc	The program is relatively fast for an Apple II page layout program. The text is greeked for all but the actual size representations. Publish It! will import from a number of widely used sources including AppleWorks, Bank Street Writer, and Print Shop The program uses an interface similar to the one used by desktop publishing programs on the Macintosh.	The word processing portion is poor as a means of entering new text. The screen display is very slow and portions of the text are lost when even a moderately fast typist gets too far ahead of the display. The program should not be considered as a word processor on an Apple IIe or IIc. There is no way to determine how text blocks have been linked.	At the price, this program is a good product for page layout after the text and graphics have been produced. The text editing and graphics included are adequate only for minor changes to existing text and for adding frames, rules, etc. Students should have little difficulty moving from Publish It!2 to similar programs on more powerful microcomputers.
Publish It! 1.11 (MS-DOS) Timeworks, Inc	Publish It! will import from a number of widely used sources including MS Word, Word Perfect, and Word Star. The program uses an interface similar to the one used by desk-top publishing programs on the Macintosh. The style sheets feature is unusual in an inexpensive program. The program allows control of leading, kerning, indents, tabs, fonts, and a number of typestyles through the style sheet.	The word processing portion is poor as a means of entering new text. The screen display is slow and portions of the text are lost when even a moderately fast typist gets too far ahead of the display. There is no way to determine how text blocks have been linked. Style sheets which are developed in the word processing programs are not carried into Publish It!.	Publish It! is a good choice for simple page layout on MS-DOS compatible microcomputers. It will work on the equipment which is usually available in secondary schools (although the addition of a mouse is nearly essential), and is reasonably priced. The program provides a WYSIWYG view of the document and includes a number of features found on only much more sophisticated programs.
Quark Style 1.01 Quark	The word processor in Style is powerful enough to use in creating stories. There is a spelling checker, automatic hyphenation, multiple columns, and style sheets to make text entry fast and easy. There are a number of zoom levels to view the text as it is entered. The program will import and export from and to most Macintosh word processors and graphics programs. Text sizes may vary from 2 to 500 points. Tab rulers are particularly easy to set.	The program is relatively slow at redrawing screens.	Quark Style is a good choice if you do not already have a word processor for your Macintosh. Style has a full-featured word processor and a very good page layout module. The templates are easy to modify and represent the design ideas of professionals.

Title	Best Features	Worst Features	Recommendation
Quark XPress 2.0 Quark	The word processor in Xpress is powerful enough to use in creating stories. There is a spelling checker, automatic hyphenation, multiple columns, and style sheets to make text entry fast and easy. There are a number of zoom levels to view the text as it is entered. The program will import and export from and to most Macintosh word processors and graphics programs. There is exact control over typographics	The program is very expensive for a school. The use of text frames is not intuitive.	The $795 list price buys a great deal of power, but if you already have a word processor and don't have a color monitor or printer, much of that power might be wasted. The effective price is even higher since the program requires a hard disk. If you are intending to do typesetting (with output on a very high resolution printer) the program is unbeatable for precision.
Springboard Publisher 1.11 (Apple II) Springboard	The program has most of the features which would make a page layout program attractive. The graphics mode is particularly full-featured. In addition to all of the normal graphics tools, the student may inverse and flip images and change the perspective of a drawing.	The program is too slow and therefore too tedious. Scrolling just one line took over a minute in a three-column document with just two pages. Entering text within existing text is extremely slow. The program does not keep up with the student's typing and loses characters.	This program is much too slow to consider for classroom use. The slowness makes it uninviting to experiment with a page layout, phrasing, etc. The tendency of the word processing mode to lose text which is typed in faser than it can keep up with (in some cases as slow as four characters per minute) makes the program inaccurate.
Springboard Publisher 1.06 (Macintosh) Springboard	The graphics portion of the software is a very complete paint program with numerous special effects, tools, and options. The word processing program has many of the features of dedicated word processors. A separate, optional text entry window is useful to prevent the slow updating of screens in a complex document. Stories may flow automatically in a background text frame or they may be linked from text frame to text frame. The wraparound graphics feature is very powerful.	The program lacks a style sheet feature, spell checking, and hyphenation which are common in word processors. The character formatting will not allow a font size larger than 72 points (one inch). There is no kerning of character pairs. Publisher will not import scanned images (TIFF) or EPS files.	Springboard Publisher is an excellent program, especially if you do not already own a word processor and a graphics program. The word processor is more than adequate and the paint program is excellent. As a page layout program, Publisher will probably do whatever is required of most schools. Be cautious of the limitations on importing scanned and PostScript images however. As these formats become more common, the program's importing shortcomings may become more severe.

Required and Optional Equipment

Title	Computer	Min. Ram	Required Equipment	Optional Equipment
Byline 1.0	MS-DOS Compatible	384 K	Two 5.25 inch disk drives or hard disk CGA or better display	EGA, Hercules, AT&T 6300 displays; dot matrix or laser printer
Children's Writing and Publishing Center:	Apple II	128 K	Apple IIe or newer	Mouse, dot matrix printer, color monitor and printer
First Publisher 2.0	MS-DOS Compatible	512 K	Two disk drive, CGA, Hercules or EGA Video, printer	3.5 inch disks, mouse, laser printers
Medley 1.0	Apple IIGS	1.25 MB	3.5" disk drive	Second disk drive, color monitor, dot matrix or laser printer
PageMaker 3.0	MS-DOS Compatible	640 K	IBM AT, System/2 or other Windows compatible computer, Hard disk, EGA, VGA, Hercules or better display, mouse	Laser printer, color
PageMaker 3.0	Macintosh	1 MB	Macintosh Plus or newer, hard disk	Laser printer, color
Pages	MS-DOS Compatible	512 K	Two 5.25" disk drives or one 3.5" drive, graphics display adapter, printer, mouse	Color monitor, laser printer
Publish It! 1.01	Apple II	128 K	Mouse or joystick, at least one disk drive	Dot matrix and laser printers, additional RAM
Publish It! 1.11	MS-DOS Compatible	512 K	Two floppy disks or one floppy and a hard disk, graphics monitor, printer	Laser printer, mouse
Quark Style 1.01	Macintosh	1 MB	Macintosh Plus or newer, hard disk	Laser printer
Quark XPress 2.0	Macintosh	1 MB	Hard disk	Laser printer, 24 bit color
Springboard Publisher 1.11	Apple II	128 K	One disk drive	3.5" disk, printer, mouse, additional RAM
Springboard Publisher 1.06	Macintosh	1 MB	Macintosh Plus or newer	Dot matrix or laser printer

Page Layout Features

	Pages	Undo	Draw	Templates	Columns	Leading	Kerning	Rulers
Byline	Y	Y	Y	N	∞	Y	Y	N
Children's Writing and Publishing Center	N	N	N	2	2	N	N	N
First Publisher	N	Y	Y	Y	4	Y	N	Y
Medley	Y	Y	Y	N	∞	Y	N	Y
PageMaker (MS-DOS)	Y	Y	Y	Y	∞	Y	Y	Y
PageMaker (Macintosh)	Y	Y	Y	Y	∞	Y	Y	Y
Pages	N	Y	Y	Y	∞	Y	N	Y
Publish It! (Apple II)	N	N	Y	Y	∞	Y	Y	Y
Publish It! (MS-DOS)	Y	N	N	N	∞	Y	Y	Y
Quark Style	N	Y	Y	Y	∞	Y	Y	Y
Quark XPress	N	Y	Y	N	∞	Y	Y	Y
Springboard Publisher (Apple II)	N	Y	Y	N	9	Y	N	Y
Springboard Publisher (Macintosh)	N	Y	Y	N	9	Y	N	Y

Word Processing and Graphics Features

Title	Import Text	Import Graphics	Typestyles	Typefaces	Sizes
Byline 1.0 MS-DOS	MultiMate, WordPerfect, WordStar, XyWrite, ASC, Lotus 1-2-3	PC Paintbrush, MacPaint,Lotus .PIC, Windows Paint	Boldface, Underline, Italics, Subscript, Superscript, Hidden, Strikethrough	Times, Courier, Bookman, Swiss, dBase Elite	Any
Children's Writing and Publishing Center Apple II	None	Print Shop	Eight fonts which are a combination of typeface, style and size.	Eight fonts which are a combination of typeface, style and size.	Eight fonts which are a combination of typeface, style and size.
First Publisher 2.0 MS-DOS	PFS:First Choice; PFS:Write; Professional Write; Microsoft Word; Multimate; Wang PC; WordPerfect; Wordstar; DCA; ASCII	PC Paintbrush; MS Windows Paint; Logipaint; Publishers Paintbrush	Bold, Italic, Normal	Elite; Geneva; Helvetica; New York; Pica	9-36
Medley 1.0 Apple IIGS	AppleWorks, ASCII	Paint files	Bold, Italic, Underline, Outline, Shadow	Courier, Helvetica, Geneva, Shaston, Times, Venice	10,12,16, custom
PageMaker 3.0 MS-DOS	DCA, DEC WPS-Plus, HP AdvanceWrite, Lotus Manuscript, MS Word 3.0 & 4.0, Multimate, Olivetti, WordPerfect, WordStar, XyWrite	PC Paint, PC Paintbrush, Windows Paint, MacPaint, TIFF, EPS, HP-GL, CGM, MAPLPS, GDI	Bold, Italic, Underline, Strikethrough, Reverse	Any installed	4-127
PageMaker 3.0 Macintosh	MacWrite, Word 3.0, Works, WriteNow	TIFF, PICT, PIC, EPSF	Bold, Italic, Underline, Strikethrough, Outline, Shadow, Reverse	Any installed	4-127
Pages MS-DOS	Works, Word, Word Perfect, Wordstar, Lotus 1-2-3	Print Shop, PC Painbrush, GEM Paint, First Publisher, Dubl-Click, MGI, MacPaint	Bold, italic	Modern, Roman, Script, Decor	2-126

Word Processing and Graphics Features

Title	Import Text	Import Graphics	Typestyles	Typefaces	Sizes
Publish It! 1.01 Apple II	AppleWorks, Bank Street Writer, ASCII	Any high resolution or double-high resolution, Print Shop	Bold, Italic, Underline, Outline, Shadow, Superscript, Subscript	Desplaines, Wilmette, Deerfield, Madison, Ravina, Westwood	9-72
Publish It! 1.11 MS-DOS	Word Writer PC, 1st Word, Word Perfect, WordStar, Quintet, Beyond Words, MS Word 4.0, ASCII	Gem Draw, Gem Paint, Lotus 1-2-3, PC Paintbrush	Bold, Underline, Italic, Light, White, Superscript, Subscript	Swiss, Dutch, Rockface, Ravina, Drury Lane Caps, Madison, Bullets	7-36 (some fonts)
Quark Style 1.01 Macintosh	MacWrite, Word 3.0, Works, WriteNow, Quark Xpress	TIFF, RIFF, EPS, PICT, PICT2, MacPaint	Bold, Italic, Underline, Strikethrough, Outline, Shadow, Reverse, Subscript, Superscript, All caps, Small caps, Superior, Word Underline	Any installed	2-500
Quark XPress 2.0 Macintosh	MacWrite, Word 3.0, Works, WriteNow	TIFF, RIFF, EPS, PICT, PICT2, MacPaint	Bold, Italic, Underline, Strikethrough, Outline, Shadow, Reverse, Subscript, Superscript, All Caps, Small caps, Superior, Word Underline	Any installed	2-500
Springboard Publisher 1.11 Apple II	ASCII	Works of Art, Springboard ClipArt, HiRes Pictures	Bold, Italic, Underline, Outline, Shadow, Superscript, Subscript, Inverse	Gothic, Sans Serif, Serif	9-72
Springboard Publisher 1.06 Macintosh	MicroSoft Word, MacPaint, ASCII	MacPaint, PICT, FullPaint	Bold, Italic, Underline, Word Underline, Character Underline, Outline, Shadow, Superscript, Subscript, Inverse	Any installed	9-72

Other Features

	Grades	Price	Search & Replace	Spell Check	Style Sheet	Clip Art	Export
Byline 1.0 MS-DOS	9-20	$295.00	Y	N	N	N	MultiMate, WordPerfect, WordStar, XyWrite, ASC, Lotus 1-2-3
Children's Writing and Publishing Center Apple II	2-12	$79.95	N	N	N	Y	None
First Publisher 2.0 MS-DOS	7-12	$129.00	N	N	N	Y	None
Medley 1.0 Apple IIGS	4-12	$195.00	Y	Y	N	Y	ASCII, Paint
PageMaker 3.0 MS-DOS	9-12	$695.00	N	N	Y	N	DCA, MS Word
PageMaker 3.0 Macintosh	9-12	$595.00	N	N	Y	N	Word 3.0, MacWrite
Pages MS-DOS	6-12	$79.95	Y	N	N	N	None
Publish It! 1.01 Apple II	9-12	$99.95	Y	N	N	Y	None
Publish It! 1.11 MS-DOS	9-12	$199.95	Y	N	N	Y	None
Quark Style 1.01 Macintosh	9-12	$795.00	Y	Y	Y	N	Quark Xpress
Quark XPress 2.0 Macintosh	9-12	$795.00	Y	Y	Y	N	MacWrite, Word 3.0, WriteNow
Springboard Publisher 1.11 Apple II	9-12	$139.95	N	N	N	Y	None
Springboard Publisher 1.06 Macintosh	6-12	$199.95	Y	N	N	N	MacPaint, ASCII

Publishers

Aldus
411 1st Ave South
Seattle, WA 98104
206-628-2352

Ashton-Tate
20101 Hamilton Ave.
Torrence, CA 90502
213-329-8000

Milliken
POBox 21579
St. Louis, MO 63132
800-643-0008

PinPoint Software
PO Box 13323
Oakland, CA 94661
415-654-3050

Quark
1983 Landings Dr.
Mountain View, CA 94103
800-356-9363

Software Publishing Company
1901 Landings Dr.
Mountain View, CA 94039
415-962-8910

Springboard
7808 Creekridge Cr.
Minneapolis, MN 55435
800-654-6301

The Learning Company
6493 Kaiser Drive
Fremont, CA 94555
800-852-2255

Timeworks, Inc
444 Lake Cook Rd.
Deerfield, IL 60015
312-948-9200